International Journal of Clinical Monitoring and Computing 8: 1992.

Contents volume 8, 1991

Volume 8, No. 1

Microprocessor based detection of epileptic discharges
R.B. Mishra & A.N. Tripathi 1

The use of a personal computer program for monitoring wound infections and other complications in orthopedics
H.H. Noer, L.P. Jensen, S.B. Kalms, J.S. Mortensen, J. Gottlieb, P.S. Jørgensen & C. Tørholm 13

Using a microcomputer to convert percent response values to probits
T.C. Krejcie 19

Expert control of the arterial blood pressure during surgery
J.A. Blom 25

Three dimensional closed loop control of the human circulation
W.G. Parkin & C.A. Wright 35

Medical logic module (MLM) representation of knowledge in a ventilator treatment advisory system
A. Kristina, G. Hans, L. Ulf, S. Nosrat, G. Xiao-ming & W. Ove 43

NOTIS: an operating theatre information system
D.E.R. Burt 49

Automated real-time data acquisition and analysis of cardiorespiratory function
R.C. Moorman, C.F. Mackenzie, G.H. Ho, G.M. Barnas, P.D. Wilson & M.J. Matjasko 59

The 11th international symposium on information technology in anesthesia, intensive care and cardio-pulmonary medicine: Rotterdam, October 8-10, 1990
D.F. Sittig 71

International conference calendar 81

Volume 8, No. 2

Editorial comment: Measuring the quality of critical care
M.M. Shabot 83

The outcome index and system outcome score: a method of quality assurance through outcome analysis in the special care area
J. Gilbert & J. Schoolfield 85

Evaluation of dopexamine hydrochloride as an anti-hypertensive agent after cardiac surgery
J.R. Colvin, S. Chaudhri & G.N.C. Kenny 95

Users' perceptions of a computerised information system in intensive care (ABICUS) on introduction and after 2 months use
K.J. Gilhooly, R. Logie, D. Ross, P. Ramayya & C. Green 101

Multivariable optimization of mechanical ventilation. A linear programming approach
R. Rudowski, A. Bokliden, A. Carstensen, H. Gill, U. Ludwigs & G. Matell 107

Computerized monitoring at Vanderbilt University status and future directions
P.H. King & B.E. Smith 117

Recursive programming – a valuable technique
D.T. Seitman 121

Computer generated discharge summaries for a neonatal unit
J. Roper 125

Abstracts of the Twelfth Annual Conference on Computers in Anesthesia, held in Fish Camp, California, U.S.A., 30 October–2 November 1991 129

Index of Authors 149

Volume 8, No. 3

An interactive computer simulator of the circulation for knowledge acquisition in cardio-anesthesia
H.-J. Popp, Th. Schecke, G. Rau, H. Käsmacher & G. Kalff 151

Monitoring of breathing intervals in narcotic sedation
K. Shibutani, T. Komatsu, T. Ogawa, T.P. Braatz & T. Tsuenekage 159

Connection of electronic medical devices in ICU according to the standard "MIB"
J. Kampmann, G. Lou, St. Kropp, E. Schwarzer & C.H. Sande 163

Human factors and computerisation in Intensive Care Units: a review
C.A. Green, K.J. Gilhooly, R. Logie & D.G. Ross 167

Evaluation of a single-room, dedicated mass spectrometer
G.T. Schulte & F.E. Block, Jr. 179

Monitoring of coagulation status using thrombelastography during paediatric open heart surgery
P. Martin, F. Horkay, S.M. Rajah & D.R. Walker 183

INFORM: integrated support for decisions and activities in intensive care
J. Hunter, M.-C. Chambrin, P. Collinson, T. Groth, A. Hedlund, S. Kalli, A. Kari, G. Lenoudias, P. Ravaux, D. Ross, J.-M. Salle, T. Sukuvaara, R. Summers & B. Zaar 189

Computer-aided self-observation psychological stressors in an ICU
R. Malacrida, D. Bomio, R. Matathia, P.M. Suter & M. Perrez 201

Physiological profiles and therapeutic goals – graphical aids support quick orientation in intensive care
H. Mrochen, U. Hieronymi & M. Meyer 207

A data model for intensive care
M.S. Leaning, C.E. Yates, D.L.H. Patterson, C. Ambroso, P.O. Collinson & S.T. Kalli 213

CINA: a software to Compose INfusion sheets for IV Anesthetic drugs
L. Barvais, F. Cantraine, E. Coussaert & A. d'Hollander 225

New Section: *Letters to the Editor*
C.H. Badenhorst 231

Volume 8, No. 4: Computing in the ICU: LDS Hospital Experience

Guest Editors: R.M. Gardner, T.P. Clemmer & T.D. East

Editorial: Computing in the ICU: is it feasible and practical?
R.M. Gardner, T.P. Clemmer & T.D. East 235

Medical informatics in the intensive care unit: state of the art 1991
T.P. Clemmer & R.M. Gardner 237

Real time data acquisition: recommendations for the Medical Information Bus (MIB)
R.M. Gardner, W.L. Hawley, T.D. East, T.A. Oniki & H.-F.W. Young 251

Knowledge engineering using retrospective review of data: a useful technique or merely data dredging?
T.D. East, S. Henderson, N.L. Pace, A.H. Morris & J.X. Brunner 259

A strategy for development of computerized critical care decision support systems
T.D. East, A.H. Morris, C.J. Wallace, T.P. Clemmer, J.F. Ormer, L.K. Weaver, S. Henderson & D.F. Sittig 263

Performance of computerized protocols for the management of arterial oxygenation in an intensive care unit
S. Henderson, R.O. Crapo, C.J. Wallace, T.D. East, A.H. Morris & R.M. Gardner 271

VARIA

Problems in the development of a computerized ward monitoring system for a paediatric intensive care unit
K.D.C. Stoodley, D.R. Walker, A.D. Crew & J.S. Marshall 281

Development of an expert system for haemodynamic monitoring: computerized symbolization of on-line monitoring data
E.M.J. Koski, A. Mäkivirta, T. Sukuvaara & A. Kari 289

INFORM: Development of information management and decision support systems for High Dependency Environments
C.L. Bowes, C. Ambroso, E.R. Carson, M.-C. Chambrin, D. Cramp, K. Gilhooly, T. Groth, J.R.W. Hunter, S. Kalli & M.L. Leaning 295

International conference calender 302
Index of authors volume 8, 1991–1992 303
Keyword index volume 8, 1991–1992 305
Instructions to authors 307
Contents volume 8, 1991–1992